#### PROJECT DESCRIPTION

#### I. GENERAL:

THIS PROJECT INVOLVES THE UP-GRADE OF AN INTERSECTION CONTROL BEACON (ICB) TO A TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 219 AND MOSSER ROAD/DEEP CREEK DRIVE, IN GARRETT COUNTY, MARYLAND. AN ADVANCE SIGNAL AHEAD HAZARD INDENTIFICATION BEACON (HIB) SHALL BE INSTALLED NORTH OF THE INTERSECTION.

US 219 (GARRETT HWY) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

#### II. INTERSECTION OPERATION:

THE INTERSECTION SHALL OPERATE IN A FOUR-PHASE, SEMI-ACTUATED MODE. WITH US 219 APPROACHES OPERATING CONCURRENTLY. ALSO THE SIDE ROADS SHALL OPERATE CONCURRENTLY. THE HIB IS HARD WIRED TO THE THE INTERSECTION AND SHALL FLASH YELLOW WHEN US 219/ MAIN LINE HAS A STOP CONDITION. A SPECIAL RELAY PACKAGE SHALL BE INSTALL IN THE EXISTING BASE MOUNTED CABINET AT THE INTERSECTION AND IN THE PROPOSED "G" TYPE POLE MOUNTED CABINET WITH TWO-CURCUIT FLASHER AT THE HIB.

#### III. SPECIAL NOTES:

THE INTERNAL WIRING TO THE EXISTING CONTROLLER SHALL BE COMPLETED BY THE SIGNAL SHOP. THE CONTRACTOR SHALL NOTIFY ED RODNEHIZER AT 410-787-7652, SEVENTY-TWO HOURS PRIOR TO THE CABINET MODIFICATION.

#### CONTACT LIST

Mr. George Small, Asst. Traffic Engineer 301-729-8444

Mr. John True, Asst. District Engineer Construction Phone: (301) 729 - 8486

Mr. Larry Humberston, District Utility Engineer Phone: (301) 729 - 8439

Mr. Edward Rodenhizer, Chief SHA Traffic Signal Shop Phone: (410) 787 - 7650

Mr. Richard Daff Sr., Chief Traffic Operations Division Phone: (410) 787 - 7630

### EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY SHA AND INSTALL BY THE CONTRACTOR.

ITEM	QUANTITY
<u>NO.</u>	UNIT

## DESCRIPTION

9010 128 SF SHEET ALUMINUM SIGNS:

1 EA "RIGHT SYMBOL, ONLY" R3-5R, 30"X 36".OVERHEAD MOUNTING HARDWARE

1 EA "SIGNAL AHEAD, PREPARE TO STOP, WHEN FLASHING" W3-3(2) 120" X 60", OVERHEAD MOUNTING HARDWARE.

2 EA "NEW, SYMBOL SIGNAL" WITH FLAGS W3-3 NEW 36" X 36", GROUND MOUNTING HARDWARE.

2 EA "NEW, SYMBOL SIGNAL" WITH FLAGS W3-3 NEW 48" X 48", 1- OVERHEAD AND 1- GROUND MOUNTING HARDWARE.

1 EA 27' POLE WITH 60' MAST ARM 4- 2" X 90" ANCHOR BOLTS.

1 EA 20' LIGHTING ARM CLAMP- ON.

1 EA "G" TYPE CABINET WITH TWO-CURCUIT FLASHER.

2 EA SPECIAL RELAY PACKAGE.

# EQUIPMENT LISTS cont.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

1001	1 EA	MAINTENANCE OF TRAFFIC.
2002	1 CY	TEST PIT EXCAVATION.
5001	85 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS -ANY WIDTH.
5003	125 LF	5" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.
5004	350 LF	5" HEAT APPLIED YELLOW PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.
5006	90 LF	24" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.
8001	5 CY	CONCRETE FOUNDATION.
8008	1 EA	INSTALL STEEL POLE AND MAST ARM.
8014	1 EA	REMOVE & DISPOSE MATERIAL AND EQUIPMENT PER ASSIGNMENT.
8021	54 LF	WOOD POST 4" X 6" DRILLED.
8022	1800 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE.
8024	25 LF	1" ELECTRICAL CONDUIT -GALVANIZED SLEEVE.
8026	1 EA	3" WEATHERHEAD.
8031	1365 LF	3" SCHEDULE 80 RIGID PVC CONDUIT -TRENCHED.
8032	55 LF	4" SCHEDULE 80 RIDIG PVC CONDUIT - TRENCHED.
8034	120 LF	3" SCHEDULE 80 RIDIG PCV CONDUIT - SLOTTED.
8035	170 LF	4" SCHEDULE 80 RIDIG PVC CONDUIT - SLOTTED.  1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT
8036	15 LF	FOR DETECTOR SLEEVES.
8038	1 EA	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240, VOLTS 60 AMPS.
8040	40 LF	ELECTRICAL CABLE 1- CONDUCTOR NO. 8 AWG THHN/THWN.
8043	2 EA	NON-INVASIVE DETECTOR 500' LEAD IN CABLE.
8045	15 EA	ELECTRICAL HANDHOLE.
8047	50 SF	INSTALL GROUND MOUNTED SIGN.
8048	78 SF	INSTALL OVERHEAD SIGN.
8064	1 EA	250 WATT HPS LAMP AND LUMINAIRE.
8069	2 EA	GROUND ROD -3/4" DIA. X 10' LENGTH.
8070	3 EA	8" VEHICULAR TRAFFIC SIGNAL HEAD SECTION.
8071	24 EA	12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION.
8074	1 EA	CLEAN, GALVANIZE AND CAP TRAFFIC STRUCTURE. (60' MAST ARM'S BUTT END 40')
8076	320 LF	ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED.
8079	100 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG).
8080	670 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG).
8081	340 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)TC.
8082	970 LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG
8083	245 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR).
8089	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNTED.
NEG	1430 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 12 AWG).
NEG	2 EA	12" (LED) VEHICULAR TRAFFIC SIGNAL HEAD SECTION.

\*ALL EXISTING EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

# PHASING CHART

1 2 3 4 5 6 7 8 9 10 11

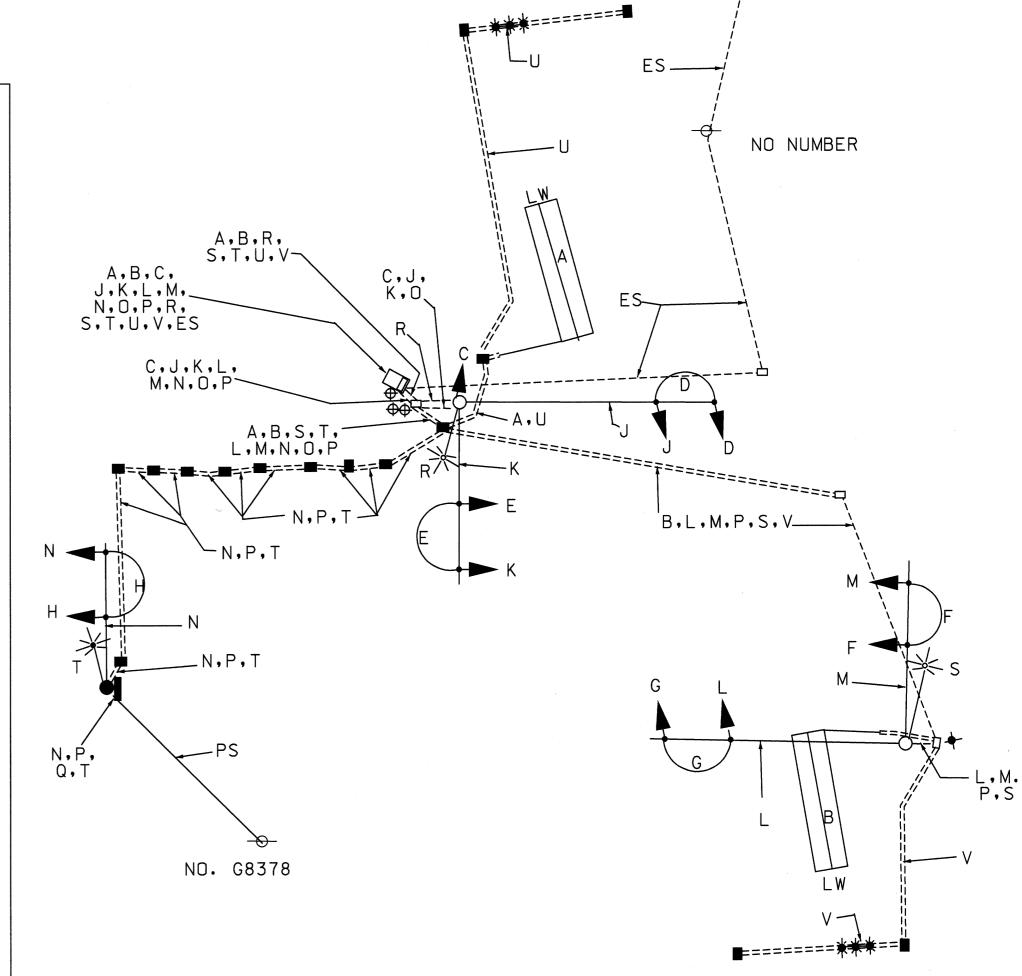
		RYG	RYG	Y	Y	R Y G	RYG	RYG	RYG	RYG	R Y G	R Y G			
	Phase 2 & 6	G	G	DARK	DARK	G	G	R	R	R	R	R		<del></del>	
	2 & 6 Change	Y	Y	FL/Y	FL/Y	Y	Y	R	R	R	R	R		<b>→</b> .	Τ
	Phase 4 & 8	R	R	FL/Y	FL/Y	R	R	G	G	G	G	G			-
	4 & 8 Change	R	R	DARK	DARK	R	R	Υ	Y	Y	Y	Y	<b> </b>	7	
	Flashing Operation	FL/Y	FL/Y	DARK	DARK	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	<b>←</b>	 	-

# WIRING DIAGRAM

NO. 20033

# WIRING KEY

- A 3 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G) ALUMINUM SHIELDED
- C EXISTING 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)
- F > 5-CONDUCTOR ELECTRICAL
- G } CABLE (NO. 14 A.W.G)
- J EXISTING 7-CONDUCTOR ELECTRICAL
  CABLE (NO. 14 A.W.G)
- This is a second control of the control of the
- N 7-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G)
- O EXISTING STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G)
- P-STRANDED BARE COPPER
  GROUND WIRE (NO. 6 A.W.G)
- Q-3 WIRES/ 1-CONDUCTOR (NO. 4 A.W.G) THHN/THWN FOR FEED
- R EXISTING 2-CONDUCTOR ELECTRICAL TRAY CABLE (NO. 12 A.W.G)
- S } 2-CONDUCTOR TRAY CABLE
  T } (NO 12 A.W.G)
- U } NON-INVASIVE DETECTOR V } WITH 500' LEAD
- ⊕ EXISTING GROUND ROD
- ▼ PROPOSED GROUND ROD
- LW-LOOPWIRE (NO. 14 A.W.G.)
- ES EXISTING POWER SERVICE
- PS PROPOSED POWER SERVICE





9220 RUMSEY ROAD; SUITE 110 COLUMBIA, MARYLAND 21045 (410)-884-3607

# Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET

2 of 2

US 219 (GARRETT RD.) AND MOSSER RD./DEEP CREEK DR.

LOG MILE: 11021924,34

DRAWN BY: E. M. MILESKY
CHECKED BY: R. J. MILSTEAD
SCALE: NONE

TS NO.

4095A
SHEET NO.

COUNTY: GARRETT

T.I.M.S. NO.

3/7/03